

IN THE CLAIMS

Complete listing of the claims:

1. (Currently amended) A motor actuator in which a driving force of a motor is transmitted to a driven member through a driving force transmission mechanism to operate the driven member,

wherein, the driving force transmission mechanism comprises a gear train part having a gear which is rotationally driven by the motor;

a tooth-missing gear which is rotationally driven by the gear; and

a rack member which is linearly driven by the tooth-missing gear to operate the driven member; and

wherein the tooth-missing gear is provided with a gear part formed with teeth around an entire circumference and structured to engage with the gear, and a tooth-missing gear part, and in which a teeth part is formed at a predetermined position of the tooth-missing part over only a part of the entire circumference in a circumferential direction of the tooth-missing gear; and; and

the rack member is provided with a first rack part, which causes the rack member to move in one direction when the motor rotates in one direction and the first rack part engages with the teeth part, tooth-missing gear part and a second rack part which causes the rack member to move in the other direction when the motor rotates in the one direction and the second rack part engages with the tooth-missing gear teeth part;

the first rack part and the second rack part are extended in parallel to each other so as to interpose the tooth-missing gear between the first rack part and the second rack part;

one end portions of the first rack part and one end portion of the second rack part are connected with each other through a connecting part; and

an other end portion of the first rack part and an other end portion of the second rack part are separated from each other so as to form a separated space between the other end portions of the first rack part and the second rack part;

the gear is disposed on an opposite side to the connecting part with respect to the tooth-missing gear; and

the gear is engaged with the gear part of the tooth-missing gear through the separated space.

2. (Original) The motor actuator according to claim 1, wherein the tooth-missing gear part is in a non-engagement state with the second rack part when the tooth-missing gear part engages with the first rack part and the tooth-missing gear part is in a non-engagement state with the first rack part when the tooth-missing gear part engages with the second rack part.

3. (Cancelled)

4. (Original) The motor actuator according to claim 1, wherein the rack member is provided with a pair of inner side portions between which the gear is disposed and which are extended in parallel to each other, and the first rack part is formed in one of a pair of the inner side portions and the second rack part is formed in the other of a pair of the inner side portions.

5. (Cancelled)

6. (Original) An opening/closing device provided with the motor actuator recited in claim 1, wherein the driven member is an opening/closing member whose position is changed between an open position and a close position by the rack member.